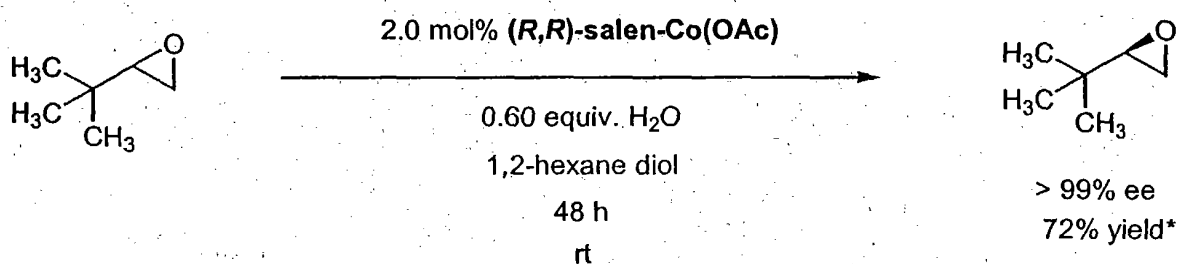


Figure 1

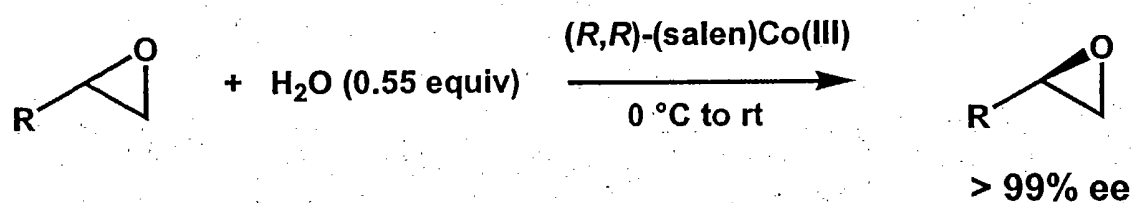
HKR of tert-Butylethyleneoxide



* Yield is expressed as a percentage of the theoretical maximum of 50%

Figure 2

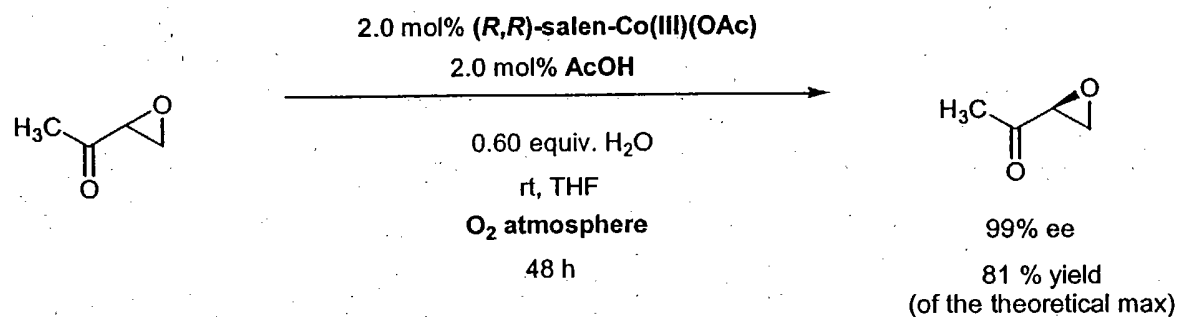
HKR of Alkyl-Substituted Terminal Epoxides



R	Catalyst (mole %)	Yield (% of theoretical)
Me	0.2	94
<i>n</i> -Bu	0.2	86
<i>n</i> -C ₁₂ H ₂₅	0.5	86
CH ₂ =CH(CH ₂) ₂	0.5	85
cyclohexyl	0.5	87
PhCH ₂	0.5	92

Figure 3

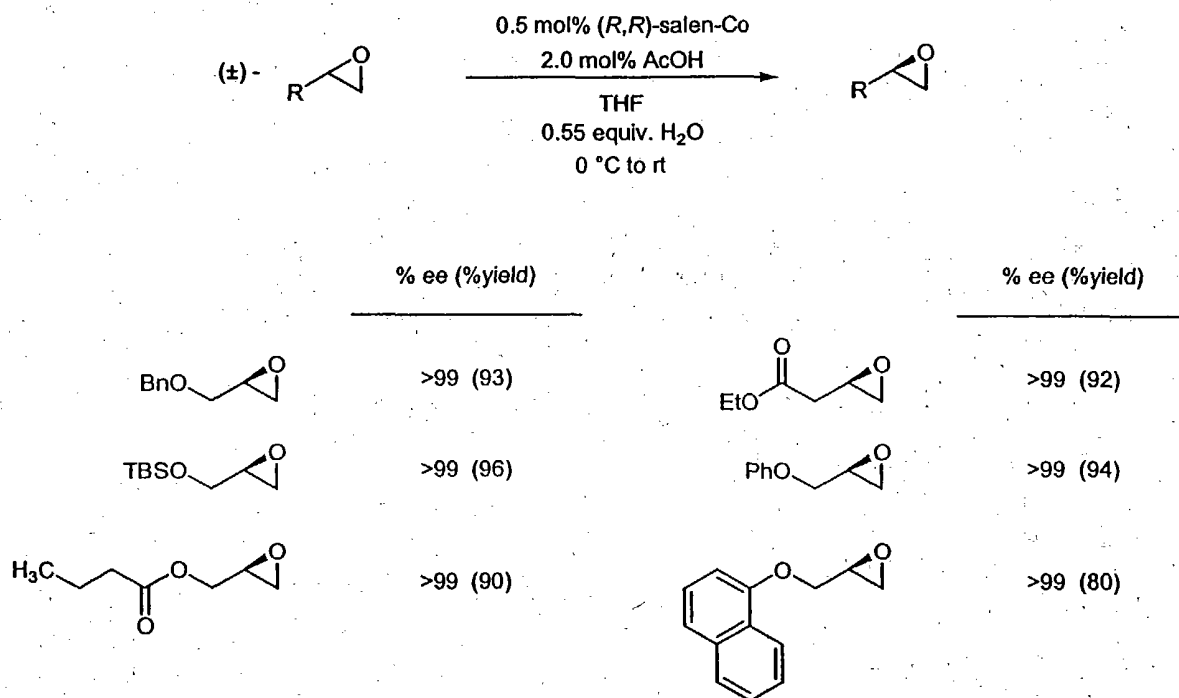
HKR of 3,4-Epoxy-2-butanone



- without O₂, the catalyst reduces out in 6 h with recovered epoxide in 76% ee
- preoxidation of catalyst is required

Figure 4

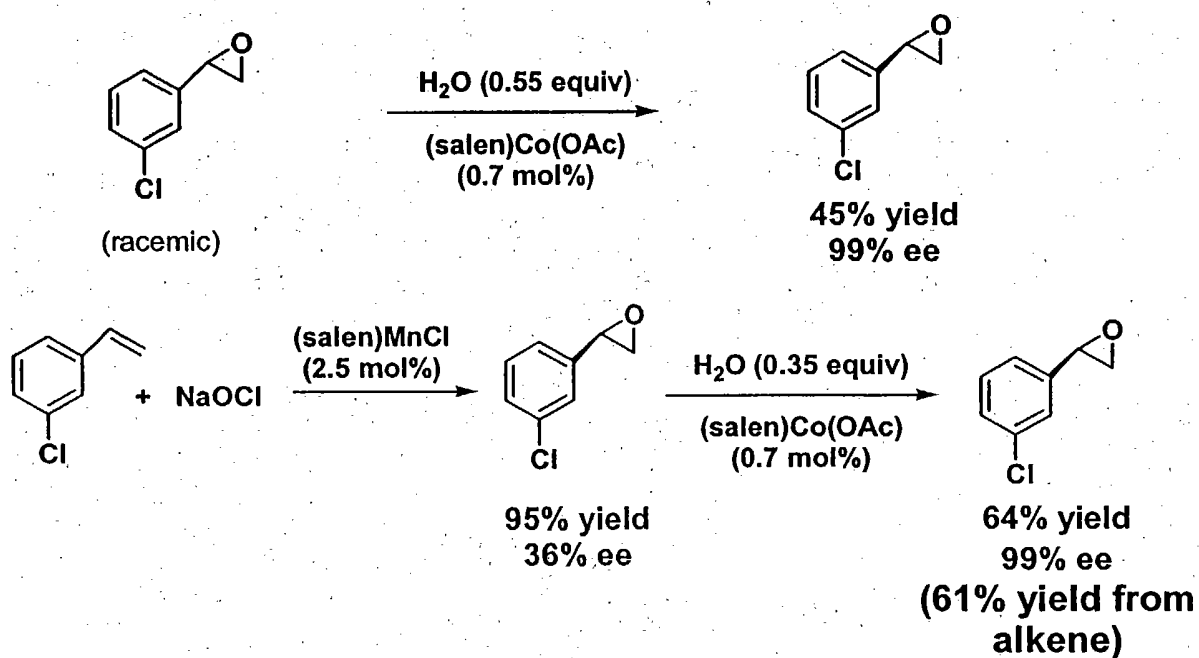
Hydrolytic Kinetic Resolution of Terminal Epoxides



* Yields reported as a theoretical maximum of 50%

Figure 5

Kinetic Resolution of m-Chlorostyrene Oxide



Brandes *Tetrahedron: Asymm* 1997, 8, 3927